

Intel® Pentium® III Processor – Low Power Development Kit

Product Highlights

Evaluation Board

- Includes Pentium® III processor LP module with 256K on-die L2 cache @ 500 MHz/100 MHz PSB
- Includes Intel® 440BX chipset
- Includes 32 MB SDRAM (100 MHz)
- Includes Intel Flash system BIOS ROM
- 82371AB PCI to ISA/IDE Xcelerator (PIIX4E)
- On-board post code debugger (port 80)
- Kit includes schematics, user's manuals and bill of materials

Included Hardware

- 4.3 Gbyte hard disk drive pre-loaded with the QNX® Real Time Operating System*
- Thermal solution attached
- PCI video graphics adapter using CHIPS* 69000 HiQVideo™ accelerator
- Intel PRO/100+ management adapter (PCI)

Board Peripheral Features

- SMC FDC37B787 Super I/O w/integrated keyboard controller and RTC
- Support for 4 IDE drives
- Support for 2 floppy drives

User Accessible On-Board Connectors

- Two serial RS-232 ports; COM1, COM2
- Supports PS/2 keyboard and PS/2 mouse (6-pin mini-DIN)
- 1 AGP slot
- Standard ATX power supply connector
- One EPP/ECP parallel port (DSUB 25)
- 3 Standard PCI expansion slots
- 2 ISA expansion slots
- 2 USB ports
- 2 SDRAM connectors



Product Description

The Pentium III processor – Low Power Development Kit is an evaluation kit with hardware, software and supporting documentation designed for use in applied computing applications. Applied computing refers to market segments consisting of systems designed and marketed to be connected, high-performance, dedicated applications that enhance business information systems on the Internet/intranet. The development kit is based on the Pentium III processor – Low Power Module (LP Module). The LP Module consists of the Pentium III processor – Low Power (0.18μ process) with a 100 MHz processor system bus and the Intel 440BX chipset. This kit may also be used as an evaluation vehicle for the Pentium III processor with 256K on-die cache in the BGA package. The kit helps facilitate a customer's migration from systems based on the Pentium II processor – Low Power module to the Pentium III processor – Low Power module. The development kit consists of an evaluation board, technical collateral and demonstration software designed to work in different application development environments. This kit enables simpler hardware designs and can accelerate the product development time.

Software Overview

In order to provide customers with the greatest development environment, Intel worked with various Independent Software Vendors (ISVs) to provide supporting evaluation software for the development kits. The software applications in the kit are demonstration copies provided free of charge by the vendors. The software is licensed for evaluation purposes only. Some applications are included in the kit while others may be downloaded from the respective vendors' web sites. Some of the features and documentation are available only when you purchase the full production product and may not be found in the demonstration copies contained in the kit. Software in the kit is subject to change without notice. Please contact the vendors directly for specific details pertaining to revision changes. Links to all of the software vendors supporting the kit will be available via the Intel Pentium III processor – Low Power Development Kit web site.

BIOS

General Software* Embedded BIOS*

Operating System Support:

- Boots Windows* 95/NT, OS/2 from disk
- Boots Windows CE from disk or ROM
- Boots DOS from disk or ROM
- Boots RT kernels, real or protected mode

Evaluation Software

QNX* RTOS & Photon micro-GUI* windowing system

VenturCom* Microsoft Windows NT* Embedded

Annasoft* Systems Jump Start for x86 drivers and Windows* CE Launcher*

Wind River* Systems Tornado 2.0* VxWorks

Intel® Applied Computing System Firmware Library

Development Kit Ordering Information

Product	Order Code
Pentium® III Processor - Low Power Development Kit	EIAMOD500DEVKIT

Intel Access

Developer's Site	developer.intel.com
Embedded Intel Architecture Development Kits	developer.intel.com/design/intarch/devkits
Other Intel Support: Intel Literature Center	developer.intel.com/design/litcentr (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

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Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.

The Intel® Applied Computing Development Kits are offered for evaluation and reference only. The board and processor may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available upon request.

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For more information, visit the Intel Web site at: developer.intel.com

UNITED STATES AND CANADA
Intel Corporation
Robert Noyce Bldg.
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119
USA

EUROPE
Intel Corporation (UK) Ltd.
Pipers Way
Swindon
Wiltshire SN3 1RJ
UK

ASIA-PACIFIC
Intel Semiconductor Ltd.
32/F Two Pacific Place
88 Queensway, Central
Hong Kong, SAR

JAPAN
Intel Kabushiki Kaisha
P.O. Box 115 Tsukuba-gakuen
5-6 Tokodai, Tsukuba-shi
Ibaraki-ken 305
Japan

SOUTH AMERICA
Intel Semicondutores do Brazil
Rue Florida, 1703-2 and CJ22
CEP 04565-001 Sao Paulo-SP
Brazil